

PAE50/100 Series

High Efficiency Eighth Brick
DC-DC Converters

- Output currents up to 30A
- RoHS Compliant
- Industry Standard Package and Pinout
- 24V - 48V Input Models
- Output Voltage Adjustment
- Remote On/Off

Key Market Segments & Applications

Telecommunications
Data Communications
Networking Equipment
Test Equipment
Industrial Electronics
Distributed Power Architecture

PAE50/100 Features and Benefits

Features

- High Efficiency
- Same Pinout as Quarter Bricks
- Meets Basic Isolation

Benefits

- Reduces System Heating
- Reduces PCB Area
- Assists Safety Approval

Specifications

ITEMS		MODELS	PAE50S24	PAE50S48 PAE100S48
Input Voltage Range	VDC		18-36	36-76
Output Voltage Accuracy	%		± 1	
Max Ripple & Noise	mV		100	
Max Line Regulation	mV		10	
Max Load Regulation	mV		10	
Overcurrent Protection (1)	-		PAE50 models 105% - 150%, PAE100 models 105% - 140%	
Overvoltage Protection (max) (2)	-		115% - 135% (120%-140% PAE50S48-5 + PAE100S48-5 only)	
Remote Sense	-		Yes	
Remote On / Off	-		Yes (open = off; short to 0V = on)	
Operating Temperature	°C		-40 to +85	
Operating Humidity	-		5 - 95% RH (non-condensing)	
Storage Temperature	°C		-40 to +100	
Storage Humidity	-		5 - 95% RH (non-condensing)	
Cooling	-		Convection or Forced Air	
I/O Isolation Voltage	-		Input to Output 1500VDC	
Vibration (non operating)	-		10 - 55Hz (1 minute), Amplitude 0.825mm (49m/s ² max) X, Y, Z 1 hour	
Shock	-		< 196.1 m/s ²	
Safety Agency Approvals	-		UL60950-1, CSA60950-1, EN60950-1, CE Mark	
Weight (Typ)	g		25	
Size (WxHxD)	mm		22.76 X 8.5 X 57.9 (See Outline Drawing)	
Warranty	-		2 Years	

Notes: (1) Converter shut down, auto restart. (2) Auto restart on /V models

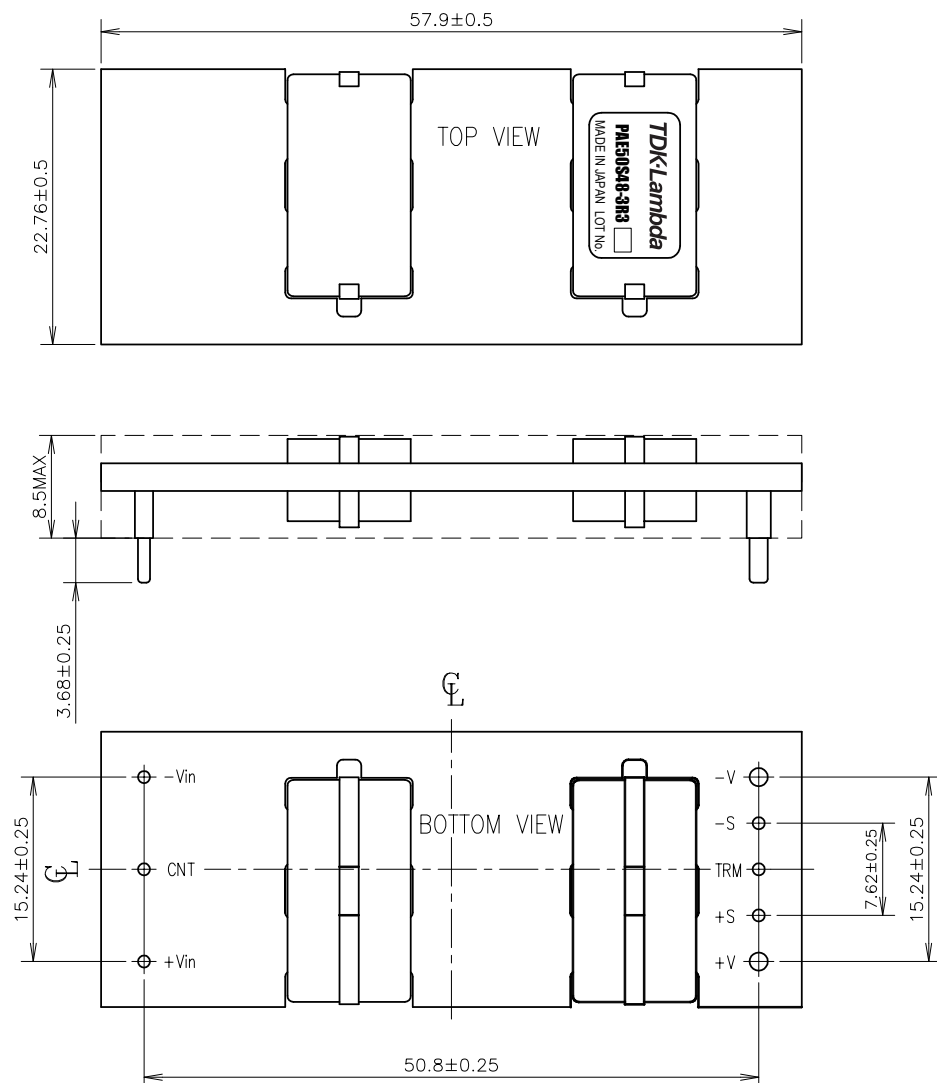
Model Selector

Models	Voltage (V)	Adjust Range	Max. current (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Input Current (A)
PAE50S48-1R8	1.8	1.44 - 1.98	20	36.0	87	0.87
PAE100S48-1R8	1.8	1.44 - 1.98	30	54.0	87	1.30
PAE50S48-2R5	2.5	2.00 - 2.75	18	45.0	89	1.06
PAE100S48-2R5	2.5	2.00 - 2.75	25	62.5	89	1.47
PAE50S48-3R3	3.3	2.64 - 3.63	16	52.8	91	1.21
PAE100S48-3R3	3.3	2.64 - 3.63	25	82.5	91	1.89
PAE50S48-5	5.0	4.25 - 5.75	10	50.0	91	1.15
PAE100S48-5	5.0	4.25 - 5.75	20	100.0	91	2.29
PAE50S24-5	5.0	4.00 - 5.50	10	50.0	91	2.29
PAE50S24-6	6.0	4.80 - 6.60	8.4	50.4	91	2.31
PAE100S48-3R3/H	3.3	2.64 - 3.63	30	99.0	90	2.30

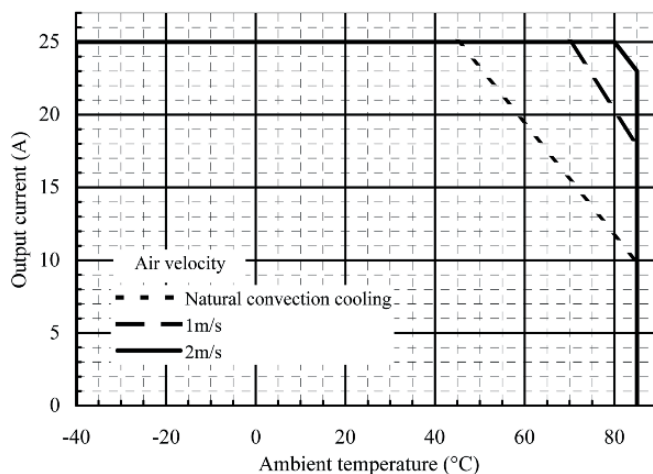
Remote On/Off Options

Suffix	Function
Blank	Manual Reset
/V	Auto Reset (Preferred)

Outline Drawing PAE50/100 Series



Derating Curve PAE100S48-3R3



TDK-LAMBDA EMEA

www.emea.tdk-lambda.com



TDK-Lambda France SAS

Route de Grivery
ZAC des Delaches
CS 41077
91978 Courtaboeuf Cedex
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.fr.tdk-lambda.com



Italy Sales Office
Via dei Lavoratori 128/130
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com



TDK-Lambda Germany GmbH

Karl-Bold-Strasse 40
77855 Achern
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Austria Sales Office
Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



TDK-Lambda UK Ltd.

Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
powersolutions@uk.tdk-lambda.com
www.uk.tdk-lambda.com



Nemic Lambda Ltd.

Kibbutz
Givat Hashlosa 48800
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@nemic.co.il
www.nemic.co.il



Russia

Technical Support:
St Petersburg
Tel: +7 (812) 6580463
Sales:
Moscow
Tel: +7 (499) 7557732
info@tdk-lambda.ru
www.tdk-lambda.ru

LOCAL DISTRIBUTION